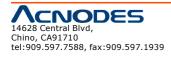


User Manual

RP 1205/1170/1190/1172/1192 17-inch/19-inch/20-inch Rack mount LCD monitor

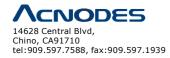
RPS 1200/1170/1190 17-inch/19-inch/20-inch Rack mount LCD monitor (supprt Sun Native resolution)





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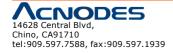
Chapter 1

Please read all these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.

- Damage, deterioration or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - » Repair or attempted repair by anyone not authorized by us.
 - » Any damage of the product due to shipment.
 - » Removal or installation of the product.
 - » Causs external to the product, such as electric power fluctuation or failure.
 - » Use of supplies or parts not meet our specifications.
 - » Normal wear and tear
 - » Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.





Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equpiment.

Safety Instructions

» Unplud equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.

- » Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-condition environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- » When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- » When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating
- » Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- » If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical rating label. The voltage rating on the cord should be higher than the one listed on the equipment's rating label.
- » Observe all precautions and warnings attached to the equipment.
- » If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- » Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- » Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- » If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

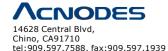
Regulatory Notices Federal Communications Commission (FCC)

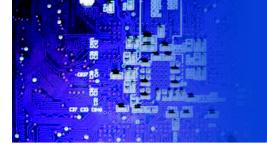
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- » Re-position or relocate the receiving antenna
- » Increase the separation between the equipment and receiver.
- » Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



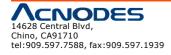


1.3 Before Installation

- » It is very important to locate the Rackmount LCD Drawer/Display in a suitable environment.
- » The surface for placing and fixing the Rackmount LCD Drawer/Display should be stable and level or mounted into suitable cabinet.
- » Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- » Convenience for connecting the Rackmount LCD Drawer/Display to the related facilities should be well considered too.

1.4 Unpacking

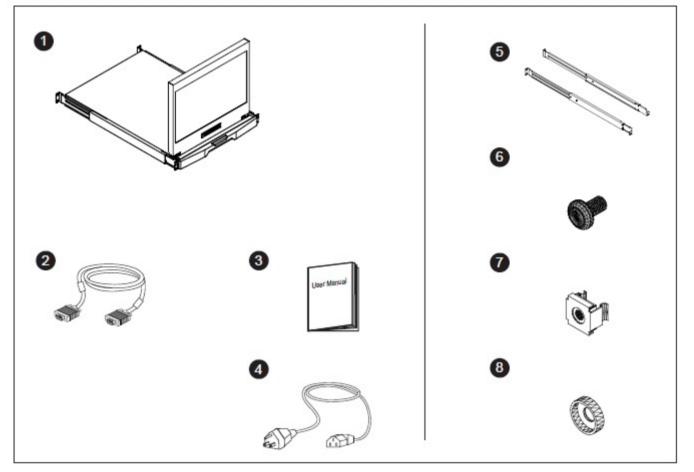
The Rackmount LCD Drawer/Display comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately



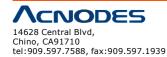


2.1 Package Contents RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1200, RPS1170 & RPS1190

Chapter 2



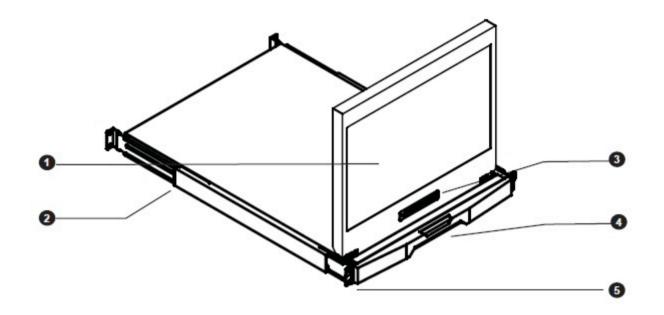
- 1 LCD drawer x 1 pc
- 2 6' VGA cable (male to male) x 1 pc
- ③ User manual x 1 pc
- (4) Power cord x 1 pc
- (5) Mounting bracket x 2 pcs
- 6 M6*15mm screw x 8 pcs
- M6 cage nut x 6 pcs
- 8 Cup washer x 8 pcs





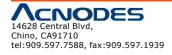
2.2 Structure Diagram

RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1200, RPS1170 & RPS1190



- 1 LCD interchangeable module kit
- (2) "One Man" Installation Slide
- ③ LCD membrane

- (4) Carry handle to release the 2-pt lock
- 5 2-point lock





2.3 Specification-

RP1170 & RP1172

Display Size: 17'' LCD Max. Resolution: 1280×1024 Brightness (cd/m^): 300Color Support: 16.7MContrast Ratio: 1000:1Viewing Angle (H/V): $160^{\circ} \times 160^{\circ}$ Display Area (mm): 338×270 Tr Response Time (ms): 1.3LCD Panel MTBF (hrs): 50,000Resolution: $720 \times 400, 70Hz$ $640 \times 480, 800 \times 600, 1280 \times 1024 60/70/72/75Hz$ $1024 \times 768, 1152 \times 864, 1280 \times 720 60/70/75Hz$

RP1190 & RP1192

Display Size: 19'' LCD Max. Resolution: 1280×1024 Brightness (cd/m^): 250 Color Support: 16.7M Contrast Ratio: 1000:1 Viewing Angle (H/V): $160^{\circ} \times 160^{\circ}$ Display Area (mm): 376×301 Tr Response Time (ms): 1.3LCD Panel MTBF (hrs): 50,000Resolution: $720 \times 400, 70$ Hz $640 \times 480, 800 \times 600, 1280 \times 1024 60/ 70/ 72/ 75$ Hz $1024 \times 768, 1152 \times 864, 1280 \times 720 60/ 70/ 75$ Hz

RPS1170

Display Size: 17'' LCD Max. Resolution: 1152×900 Sun Native Resolution: 1280×1024 Brightness (cd/m^): 300Color Support: 16.7MContrast Ratio: 1000:1Viewing Angle (H/V): $160^{\circ} \times 160^{\circ}$ Display Area (mm): 338×270 Tr Response Time (ms): 1.3LCD Panel MTBF (hrs): 50,000Resolution: $720 \times 400, 70Hz$ $640 \times 480, 800 \times 600, 1280 \times 1024 60/70/72/75Hz$ $1024 \times 768, 1152 \times 864, 1280 \times 720 60/70/75Hz$



14628 Central Blvd, Chino, CA91710 tel:909.597.7588, fax:909.597.1939

RP1205

Display Size: 20" LCD Max. Resolution: 1600 x 1200 Brightness (cd/m^): 300 Color Support: 16.7M Contrast Ratio: 800:1 Viewing Angle (H/V): 160° x 160° Display Area (mm): 408 x 306 Tr Response Time (ms): 1 LCD Panel MTBF (hrs): 50,000 Resolution: 1400 x 1050, 1600 x 1200 60Hz 720 x 400 70Hz 640 x 480, 800 x 600 60/ 70/ 72/ 75Hz 1024 x 768, 1152 x 864, 1280 x 1024 60/ 70/ 75Hz 1280 x 720 60/ 75Hz

RPS1190

Display Size: 19'' LCDMax. Resolution: 1152×900 Sun Native Resolution: 1280×1024 Brightness (cd/m^): 250 Color Support: 16.7MContrast Ratio: 1000:1Viewing Angle (H/V): $160^{\circ} \times 160^{\circ}$ Display Area (mm): 376×301 Tr Response Time (ms): 1.3LCD Panel MTBF (hrs): 50,000Resolution: $720 \times 400, 70Hz$ $640 \times 480, 800 \times 600, 1280 \times 1024 60/ 70/ 72/ 75Hz$ $1024 \times 768, 1152 \times 864, 1280 \times 720 60/ 70/ 75Hz$

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RPS1200

Display Size: 20" LCD Max. Resolution: 1152 x 900 Sun Native Resolution: 1600 x 1200 Brightness (cd/m^): 300 Color Support: 16.7M Contrast Ratio: 800:1 Viewing Angle (H/V): 160° x 160° Display Area (mm): 408 x 306 Tr Response Time (ms): 1 LCD Panel MTBF (hrs): 50,000 Resolution: 1400 x 1050, 1600 x 1200 60Hz 720 x 400 70Hz 640 x 480, 800 x 600 60/ 70/ 72/ 75Hz 1024 x 768, 1152 x 864, 1280 x 1024 60/ 70/ 75Hz 1280 x 720 60/ 75Hz

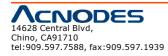
Standard Feature

VGA Signal Input: Analog RGB, 0.7Vp-p Sync. Type: Separate H/V, Composite, SOG Plug & Play DDC: EDID 1.3 Connector: DB-15 connector Power Input: Auto-sensing 100 to 240 VAC, 50/ 60Hz Power Consumption: Max. 48 Watt, Standby 5 Watt Compatibility: Multi-platform - Mix PCs, SUNs, IBM, HPs & DELLs. Regulation Approval: FCC, CE Graphic Input (Optional): DVI-D, BNC, S-Video & Quad display input DC Power (Optional): DC Power input with 12V, 24V, 48V selection Touchscreen (Optional): Resistive & Capacitive AU: 35mm audio plug NEMA4 / IP65: 4mm thickness of protective glass

Environmental: Operation: 0° to 50°C Degree Storage: -5° to 60° Degree Relative Humidity: 5~90%, non-condensing Shock: 10G acceleration (11ms duration) Vibration: 5~500Hz 1G RMS random vibration

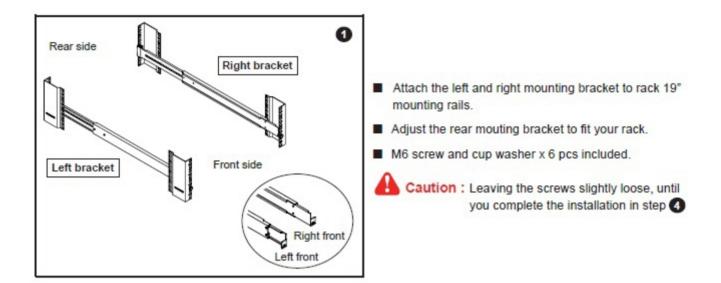
Dimensions (W x D x H)

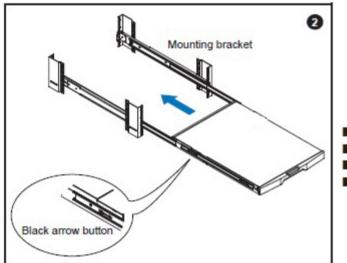
RP1200 & RPS1205: 17.4 x 25.6 x 1.73" RP1170 & RP1190: 17.6 x 23.6 x 1.73" RPS1170: 17.6 x 23.6 x 1.73" RPS1190: 17.4 x 23.6 x 1.73" RP1172 & RP1192: 17.6 x 18.9 x 1.73"



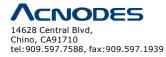


2.4 How to Install "One Man" Installation Slides Install into rack



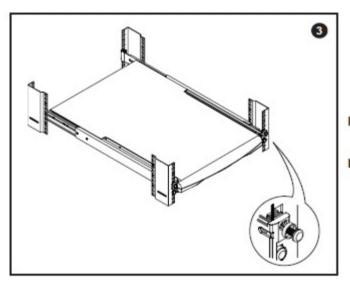


- Pick up the LCD drawer.
- Insert the LCD drawer into the mounting bracket.
- Pull and hold the left & right black arrow buttons on the rails.
- Return the LCD drawer to park position.

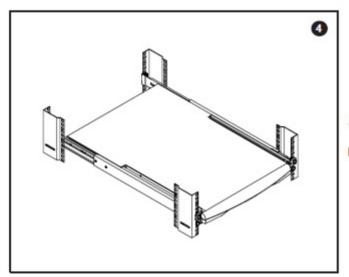




2.4 How to Install "One Man" Installation Slides RPW1190

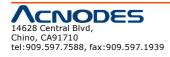


- Attach front left and right mounting ears of the LCD drawer to vertical mounting rails.
- M6 screw and cup washer x 2 pcs included.

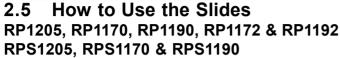


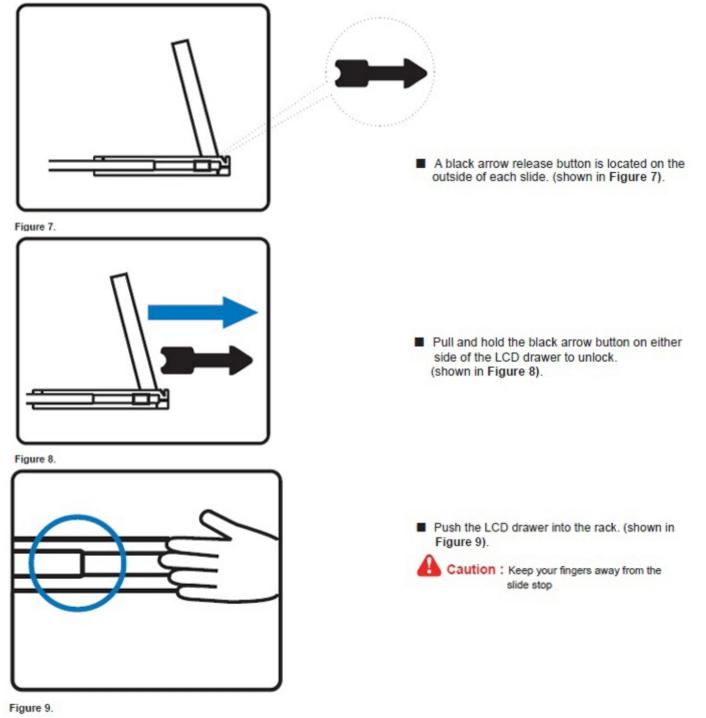
Complete the installation

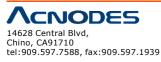
Tighten all 8 pcs of M6 screw to complete the installation.













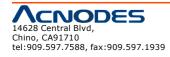
2.6 Connection

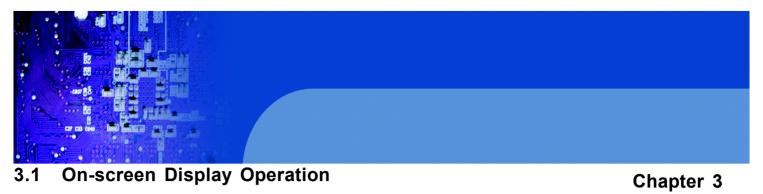
Internal power version Power VGA COMPANY COMP

External power version (For short depth version - RP-1415 / 1417 / 1419)

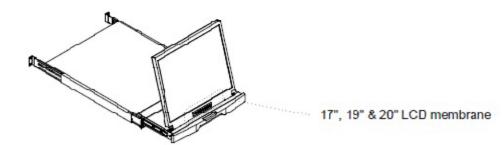


Caution : The Rackmount LCD Drawer & Display are hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage of the servers, KVM and Rackmount LCD Drawer. Before attempting to connect anything to the Rackmount LCD Drawer, we suggest that turn off power to all devices before connecting them. Apply power to connected devices again only after the Rackmount LCD Drawer receiving power. The company is not responsible for damage caused in this way.

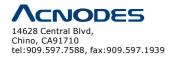




RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1205, RPS1170 & RPS1190

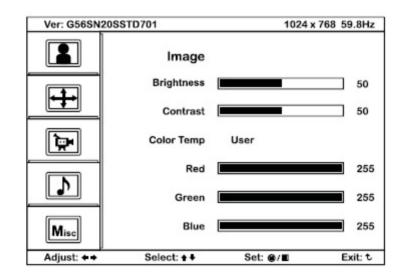


Membrane Switch	Function
0	Powerlight
•	Green = On
•	Orange - Power eaving
Θ	Power on / off LCD
M	Display the OSD menu
	Scrolls through menu options and adjusts the displayed control
��♥	(To auto adjustment by pressing the button $\langle \! D \rangle$ for 5 seconds)
0	Exit the OSD screen
Ц×	Toggle analog, digital & video connection (DVI-D and video options only)



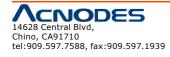


RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1205, RPS1170 & RPS1190



OSD Configuration Page

	Image: To enter into the brightness, contrast, color temp, red, green, and blue			
+	Geometry: To enter into the auto adjust, H position, V position, phase and clock			
	Video: To enter into the colour, tint, sharpness, noise reduction, DCDi and TV Setup			
	Audio: To enter into volume, bass, treble, balance, AVL and mute			
Mise	Misc: To enter into the language, OSD position, graphic mode, ratio, reset and timer			





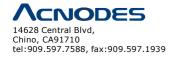
4.1 DVI-D Option

RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1205, RPS1170 & RPS1190

Internal power version	DVI-D	VGA
		e)@
External power version	(For short depth version - RP-1415 / 1417 /	/ 1419)
o		e()»

Remarks

- Package includes 1 x 6ft DVI-D cable
- The depth of RP-1415 / 1417 / 1419 will be extended from 480mm (18.9") to 530mm (20.9")



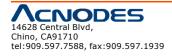


4.2 BNC+S-Video Option RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1205, RPS1170 & RPS1190

Internal power version	S-Video	BNC	VGA
	0	Ø	())
External power version	(For short depth versio	n - RP-1415	5 / 1417 / 1419)
Ø	٥	0	¢)9

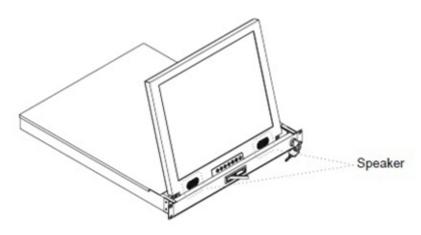
Remarks

Package includes 1 x 6ft S-Video cable

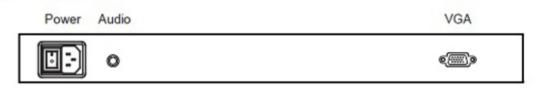




4.3 Audio Option RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1205, RPS1170 & RPS1190



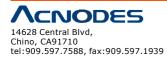
Internal power version



External power version		(For short depth version - RP-1415 / 1417 / 1419)	
0	0		e())

Remarks:

- Audio input is 35mm audio plug
- The speaker is sharing the same power with LCD.

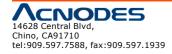




4.4 Touchscreen Options

RP1205, RP1170, RP1190, RP1172 & RP1192 RPS1205, RPS1170 & RPS1190

USB interface Power USB VGA Internal power version 0-..... (....) (For short depth version - RP-1415 / 1417 / 1419) External power version 0 (*****)) ----Serial interface Power Serial VGA Internal power version • (;;;;)) e(.....)p (For short depth version - RP-1415 / 1417 / 1419) External power version e(....)) 0 4(....)p





4.4 Touchscreen Options

e-Resistive

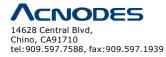
Model	-15TRB / -15TRS	-17TRB / -17TRS	-19TRB / -19TRS	-20TRB / -20TRS	
Screen size	15"	17"	19"	20"	
Interface	USB / serial				
Optical transmittance	80% ± 3%				
Surface hardness	≥3H (JIS K5400)				
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux				

e-Capacitive

Model	-15TCB / -15TCS	-17TCB / -17TCS	-19TCB / -19TCS	-20TCB / -20TCS	
Screen size	15"	17"	19"	22"	
Interface		USB	serial		
Optical transmittance	93% ± 2%				
Surface hardness	>9H Surface hardness, withstand over 300 million touches				
Operating system	w	indows 98 / 2000 / ME /	XP / NT / CE, DOS, Lin	ux	

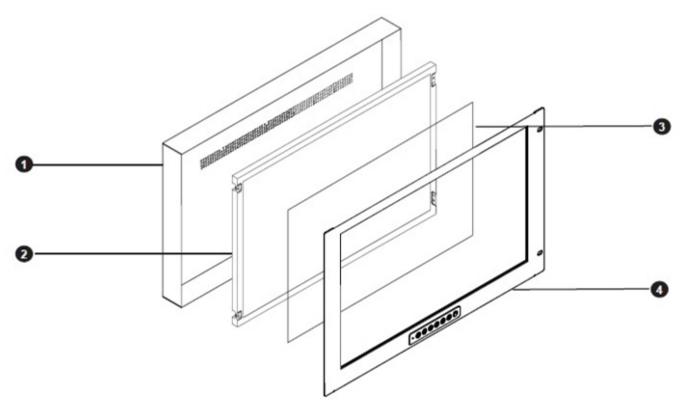
Remarks

- USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc
- Serial touchscreen package includes 1 x 6ft serial cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully
- Touchscreen in other brands are available on request





4.5 Front NEMA/IP65 Option

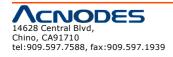


1 Rear case

- 2 LCD panel
- 3 4mm protective glass (Front NEMA 4 / IP65 protection)
- 4 Aluminum front panel

Remarks

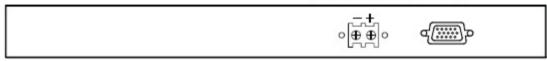
» 4mm thickness of protective glass is not toughened one, please handle it carefully





4.6 DC Power Options

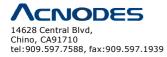
DC Power input VGA



Model	12V	24V	48V
Input rating	P5.0000		0.000
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

Remarks

- Package does not include power cord and AC power adapter
- The depth of RP-1415 / 1417 / 1419 will be extended from 480mm (18.9") to 530mm (20.9")





5.1 Troubleshooting

1. How do I adjust the resolution?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

2. Is interference signal appeared on LCD normal when shutting down the computer ?

In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.

3. The membrane power light is not ON

Press the power On / Off on LCD membrane to check if the monitor is in the ON mode. Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

4. Screen image is not centered or sized properly

Press the result of two seconds to automatically adjust the image. Adjust the H-position and V-position settings via On-screen menu.

For SP series LCD Drawer

1. How can I adjust the monitor resolution to 1152 x 900 for SUN Micro system ?

The S solution LCD drawer will automatically detect the 1152 x 900 resolution, so no user configuration should be necessary.

2. How do I adjust the resolution in MS Windows operation system?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

6. Is the LCD drawer hot-pluggable ?

The LCD drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD receives power.

